

US008850350B2

(12) United States Patent Bi et al.

(10) **Patent No.:**

US 8,850,350 B2

(45) **Date of Patent:**

Sep. 30, 2014

(54) PARTIAL GESTURE TEXT ENTRY

(71) Applicant: Google Inc., Mountain View, CA (US)

(72) Inventors: **Xiaojun Bi**, Sunnyvale, CA (US); **Yu**

Ouyang, San Jose, CA (US); Shumin

Zhai, Los Altos, CA (US)

(73) Assignee: Google Inc., Mountain View, CA (US)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 13/793,825

(22) Filed: Mar. 11, 2013

(65) Prior Publication Data

US 2014/0108992 A1 Apr. 17, 2014

Related U.S. Application Data

(60) Provisional application No. 61/714,651, filed on Oct. 16, 2012.

(51) Int. Cl.

G06F 3/048 (2013.01)

G06F 3/033 (2013.01)

G06F 17/27 (2006.01)

G06F 3/0488 (2013.01)

G06F 3/0484 (2013.01)

G06F 3/023 (2006.01)

(52) U.S. Cl.

(58) Field of Classification Search

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

6,032,053 A 2/2000 Schroeder et al. 6,286,064 B1 9/2001 King et al. (Continued)

FOREIGN PATENT DOCUMENTS

EP 0844570 A2 5/1998 EP 1 887 451 A2 10/2001 (Continued)

OTHER PUBLICATIONS

U.S. Appl. No. 60/430,338, by Daniel Suraqui, filed Nov. 29, 2002. U.S. Appl. No. 60/505,724, by Daniel Suraqui, filed Sep. 22, 2003. Advanced tips for Swype, found at www.swype.com/tips/advanced-tips/, downloaded Aug. 20, 2012, 3 pp.

(Continued)

Primary Examiner — Tadeese Hailu

Assistant Examiner — Asteway T Gattew
(74) Attorney, Agent, or Firm — Shumaker & Sieffert, P.A.

(57) ABSTRACT

A graphical keyboard including a number of keys is output for display at a display device. The computing device receives an indication of a gesture to select at least two of the keys based at least in part on detecting an input unit at locations of a presence-sensitive input device. In response to the detecting and while the input unit is detected at the presence-sensitive input device: the computing device determines a candidate word for the gesture based at least in part on the at least two keys and the candidate word is output for display at a first location of the output device. In response to determining that the input unit is no longer detected at the presence-sensitive input device, the displayed candidate word is output for display at a second location of the display device.

26 Claims, 7 Drawing Sheets

